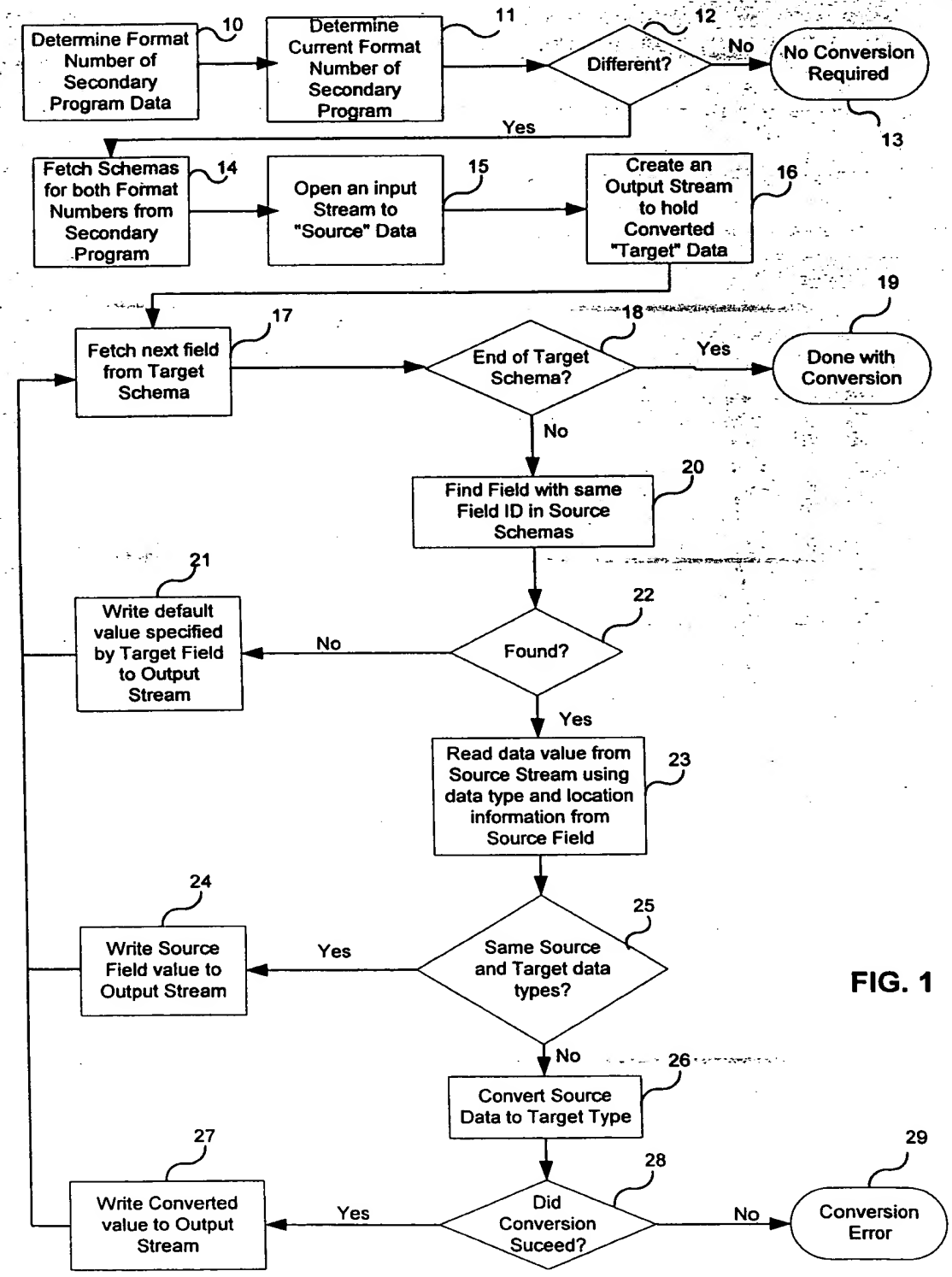
Determine Format Number of Secondary Program Data
10
Determine Current Format Number of Secondary Program
11
Different?
12
No
No Conversion Required
13
Yes
Fetch Schemas for both Format Numbers from Secondary Program
14
Open an input Stream to "Source" Data
15
Create an Output Stream to hold Converted "Target" Data
16
19
Fetch next field from Target Schema
17
End of Target Schema?
18
Yes
Done with Conversion
No
Find Field with same Field ID in Source Schemas
20
21
Write default value specified by Target Field to Output Stream
No
Found?
22
Yes
Read data value from Source Stream using data type and location information from Source Field
23
24
Write Source Field value to Output Stream
Yes
Same Source and Target data types?
25
No
Convert Source Data to Target Type
26
27
Write Converted value to Output Stream
Yes
Did Conversion Suceed?
28
No
Conversion Error
29

FIG. 1

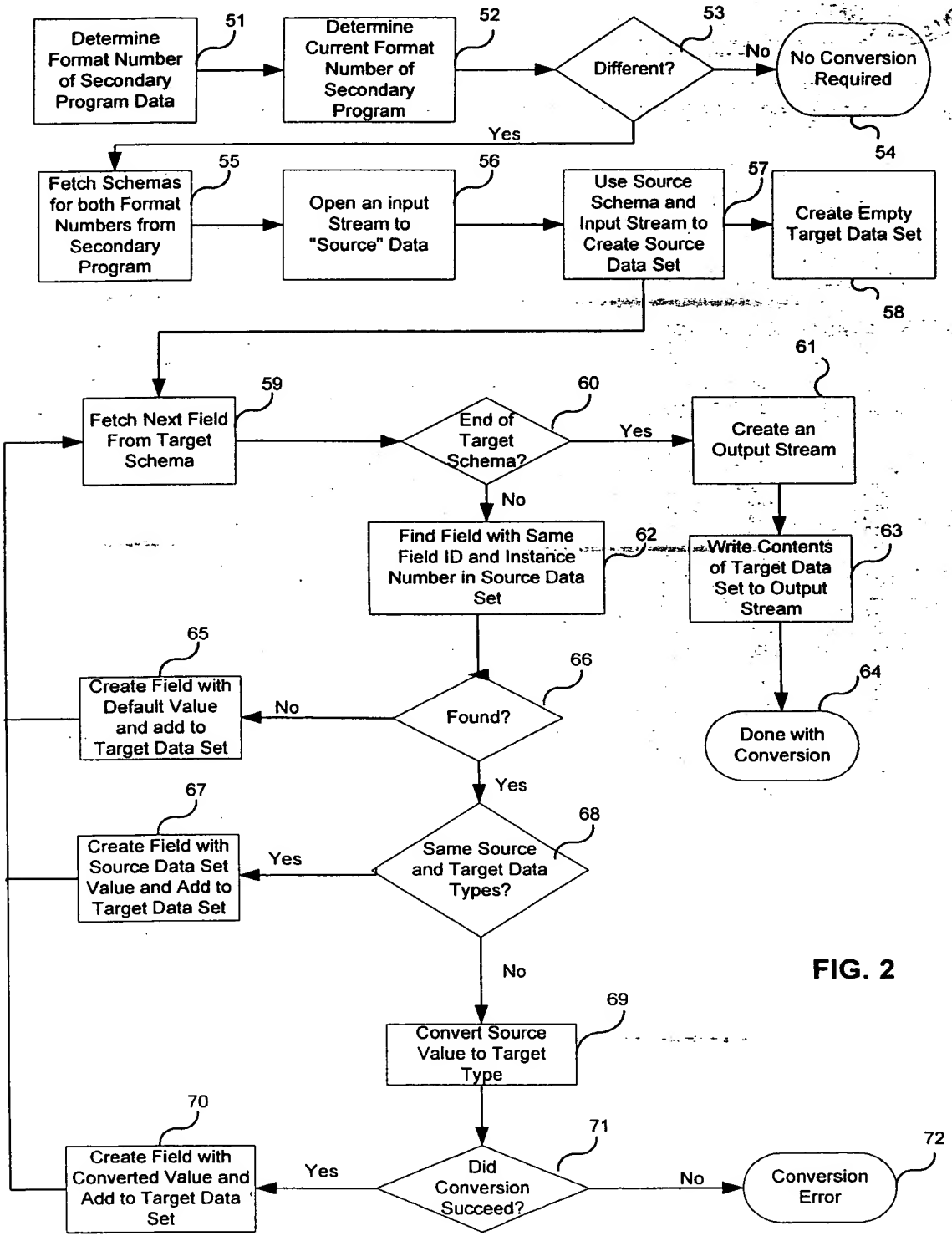
Determine Format Number of Secondary Program Data
51
Determine Current Format Number of Secondary Program
52
Different?
53
No
No Conversion Required
54
Yes
Fetch Schemas for both Format Numbers from Secondary Program
55
Open an input Stream to "Source" Data
56
Use Source Schema and Input Stream to Create Source Data Set
57
Create Empty Target Data Set
58
Fetch Next Field From Target Schema
59
End of Target Schema?
60
Yes
61
Create an Output Stream
No
Find Field with Same Field ID and Instance Number in Source Data Set
62
Write Contents of Target Data Set to Output Stream
63
Done with Conversion
64
Found?
66
No
Create Field with Default Value and add to Target Data Set
65
Yes
Same Source and Target Data Types?
68
Yes
Create Field with Source Data Set Value and Add to Target Data Set
67
No
Convert Source Value to Target Type
69
Did Conversion Succeed?
71
No
Conversion Error
72
Yes
Create Field with Converted Value and Add to Target Data Set
70

FIG. 2

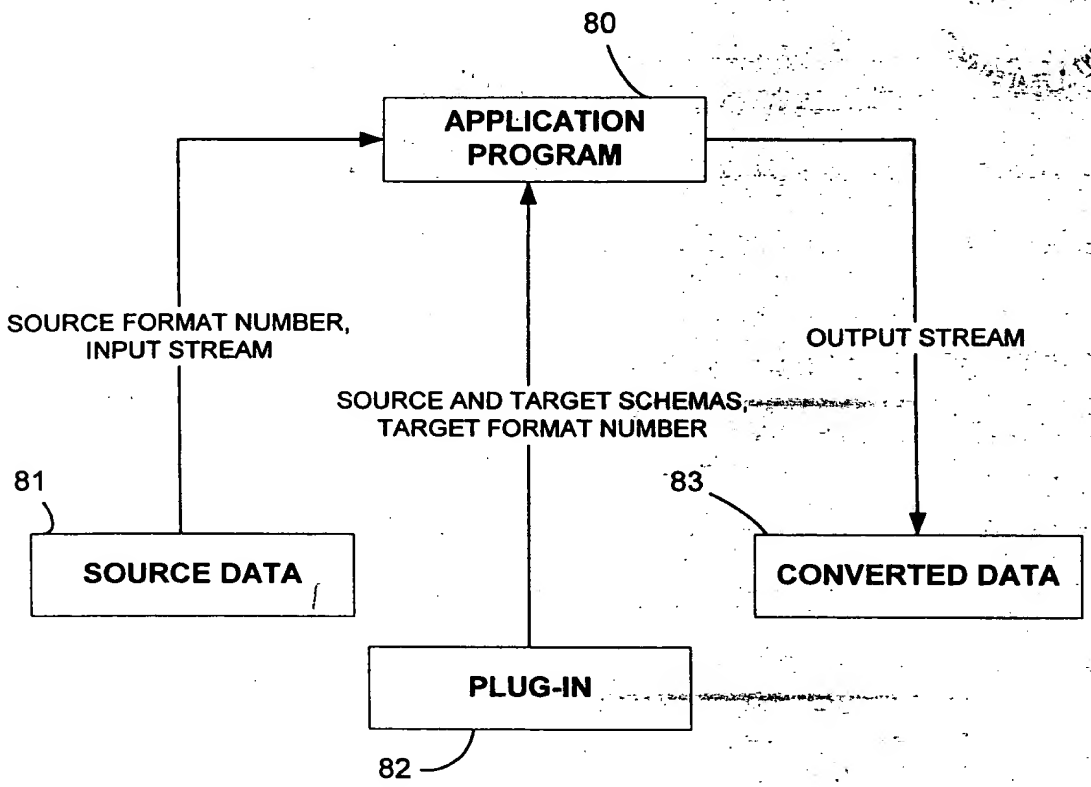
80
APPLICATION PROGRAM
SOURCE FORMAT NUMBER, INPUT STREAM
OUTPUT STREAM
SOURCE AND TARGET SCHEMAS, TARGET FORMAT NUMBER
81
83
SOURCE DATA
CONVERTED DATA
PLUG-IN
82

FIG. 3